[0073] FIG. 2 is a view for explaining an information providing system according to another exemplary embodiment;

[0074] FIGS. 3A through 3C are views of screens on which a mobile terminal selects an object of an external display device, according to an exemplary embodiment;

[0075] FIGS. 4A and 4B are views of screens on which a mobile terminal obtains additional information, according to an exemplary embodiment;

[0076] FIG. 5 is a view of a screen on which contents are obtained, according to an exemplary embodiment;

[0077] FIG. 6 is a view of a screen on which an object is displayed or reproduced, according to an exemplary embodiment;

[0078] FIG. 7 is a flowchart illustrating a method in which a mobile terminal displays information, according to an exemplary embodiment;

[0079] FIG. 8 is a detailed flowchart illustrating a method in which a mobile terminal displays information, according to an exemplary embodiment;

[0080] FIG. 9 is a flowchart illustrating a method in which a display device senses an input of a mobile terminal and provides additional information, according to an exemplary embodiment;

[0081] FIG. 10 is a flowchart illustrating a method in which a mobile terminal obtains additional information through a server, according to an exemplary embodiment;

[0082] FIG. 11 is a flowchart illustrating a method in which a mobile terminal obtains contents, according to an exemplary embodiment;

[0083] FIG. 12 is a flowchart illustrating a method in which a mobile terminal obtains contents through a server, according to an exemplary embodiment;

[0084] FIG. 13 is a view of a screen on which each of a plurality of mobile terminals selects an object of a display device, according to an exemplary embodiment;

[0085] FIG. 14 is a block diagram of a mobile terminal, according to an exemplary embodiment;

[0086] FIG. 15 is a block diagram of a display device, according to an exemplary embodiment;

[0087] FIG. 16 is a flowchart illustrating a method in which a display device provides information, according to an exemplary embodiment; and

[0088] FIG. 17 is a flowchart illustrating a method in which a mobile terminal generates a control signal, according to an exemplary embodiment.

DETAILED DESCRIPTION OF THE
EXEMPLARY EMBODIMENTS

[0089] First, the terms used herein will be briefly described, and then the exemplary embodiments will be described in detail.

[0090] Although the terms used herein are general terms that are widely used at present in consideration of the functions of the exemplary embodiments, they may vary according to the intention of one of ordinary skill in the art, a precedent, the appearance of new technology, or the like. In addition, in a particular case, the applicant may select the terms arbitrarily. In this case, the meanings of the terms will be described in detail in the detailed description of the exemplary embodiments. Thus, the terms used in the detailed description should not be only names of the terms but should be defined based on their meanings and contents in relation to the exemplary embodiments.

[0091] When a unit "comprises" an element in the entire specification, the unit does not exclude another element but may further comprise another element unless the context clearly indicates otherwise. In addition, terms such as " . . . unit", "module", and the like used herein indicate a unit for performing at least one function or operation and may be implemented by hardware or software or a combination thereof.

[0092] Throughout the specification, an "object" refers to a target that may be selected by a user from a display device. Examples of the object include, but are not limited to, an icon, a link, a picture, a text, an index item, etc.

[0093] In addition, "additional information" refers to information regarding contents corresponding to an object, and may have various forms according to types of contents. Examples of the additional information may include, but are not limited to, preview information, prelistening information, application information, user review information, advertisement image information, update information, newspaper article information, goods information, movie information, game information, album information, etc.

[0094] In the present specification, "contents" may be displayed, reproduced, or stored in a mobile terminal, and may include, for example, still image contents (for example, a photo, a picture, etc.), text contents (for example, an electronic book (a poem and a novel), a letter, a business file, a web page, an electronic program guide (EPG), etc.), moving image contents (for example, a personal image, a movie, music video, a YouTube video, a TV program image, etc.), music contents (for example, music, a music performance, a radio broadcast, etc.), an application (a widget, a game, etc.)

[0095] The exemplary embodiments will now be described more fully with reference to the accompanying drawings. The exemplary embodiments may, however, be embodied in many different forms and should not be construed as being limited to the embodiments set forth herein; rather, these embodiments are provided so that this disclosure will be thorough and complete, and will fully convey the inventive concept to those of ordinary skill in the art. For clarity, in the drawings, irrelevant portions with respect to the description are omitted, and similar reference numbers are added to similar portions throughout the entire specification.

[0096] As used herein, the term "and/or" includes any and all combinations of one or more of the associated listed items. Expressions such as "at least one of," when preceding a list of elements, modify the entire list of elements and do not modify the individual elements of the list.

[0097] FIG. 1 is a view for explaining an information providing system according to an exemplary embodiment.

[0098] Referring to FIG. 1, the information providing system according to an exemplary embodiment may include a mobile terminal 100 and an external display device 200.

[0099] The mobile terminal 100 is a device that obtains contents from the outside and displays, reproduces, or stores the obtained contents. The mobile terminal 100 may be implemented in various ways. For example, the mobile terminal 100 described in the present specification may include a cellular phone, a smart phone, a laptop computer, a tablet personal computer (PC), an e-book terminal, a personal digital assistant (PDA), a portable multimedia player (PMP), a navigation system, etc.